# Eco-Wall System

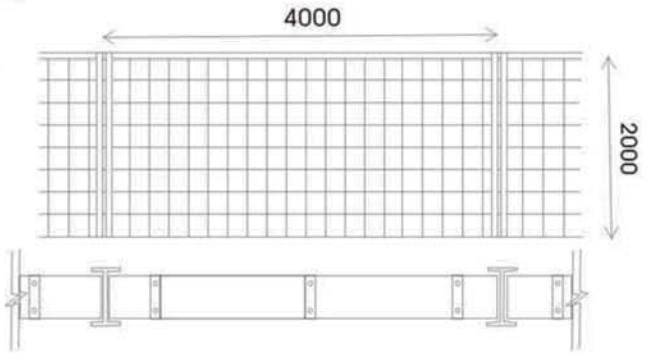
Eco-Wall System is a generic term referring to any propriety in-situ system for establishing vegetation on vertical surface through the application of a organic growing medium of sufficient depth to support the establishment and long term growth, which is securely supported on ground or anchored to the vertical surface with structure, surface protection netting and planting medium which contains fertilizers, water retaining agents, and vegetation.Eco-Wall System is a vegetation and environmental structure to be acted as retaining wall finishing, hoarding, noise barrier ...ect.

## The Properties of the Eco-Block

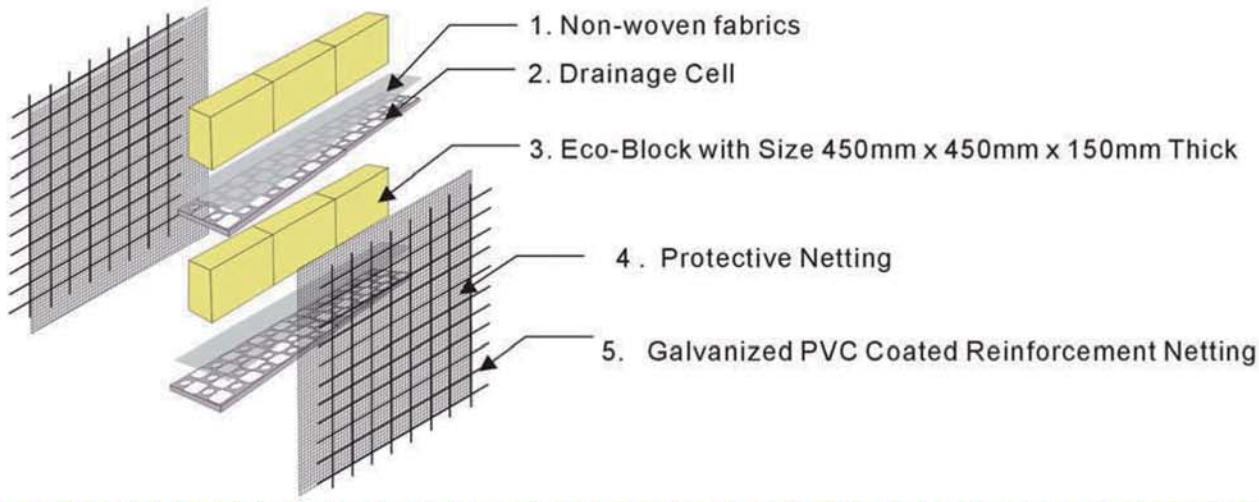
| | | | |
|---|---|---|---|
| (a)PH value | 6.0 | to | 7.5 |
| (b)Moisture content | 30 % | to | 35 % |
| (c)Organic matter content (dry weight) | 50 % | to | 90 % |
| (d)Organic carbon content (dry weight) | 40 % | to | 60 % |
| (e)Total Nitrogen content (dry weight) | 0.1 % | to | 1.5 % |
| (f)Carbon: Nitrogen ratio | 35:1 | to | 50:1 |
| (g)Dry density | 400 kg/m$^3$ | to | 450 kg/m$^3$ |
| (h)Saturated density | 350 kg/m$^3$ | to | 400 kg/m$^3$ |

- It can be planted on the wall
- Full vegetation on non-soil surface
- High resistance to rain erosion
- High water retaining capacity
- Long lasting fertilizer
- High gas permeability
- Light in weight

## Installation

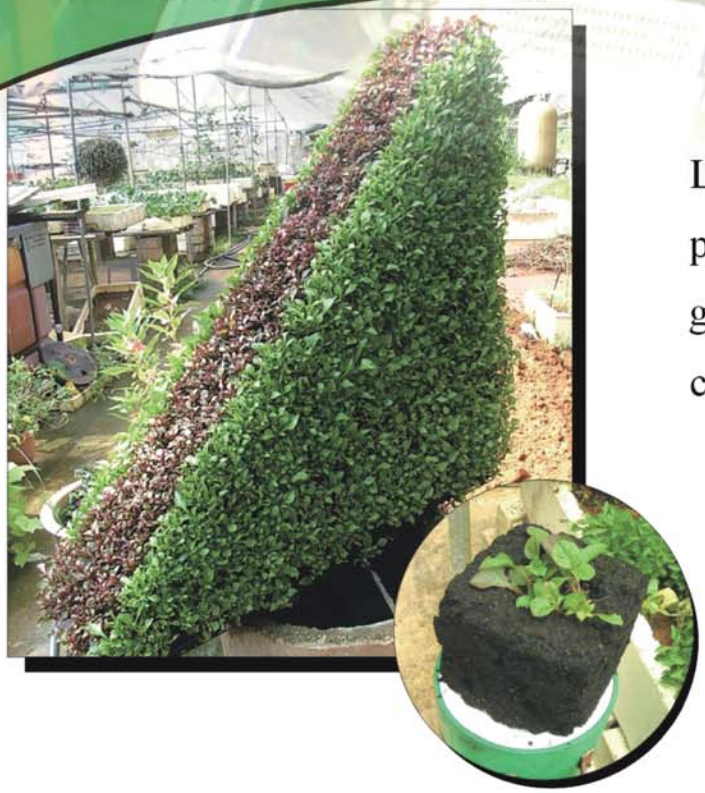



The Eco-Block should be the Compacted Soil-Factor with size 450mm x 450mm x 150mm Thick, or equivalent material, supplied by Toyo Greenland Company Limited. It should be excellent in gas permeability and water-retaining capacity, and can maintain fertilizer for a long period of time. Besides, it should be strong resistance to drought and rain erosion. High alkaline content material should not be used as bonding agent.




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# Quality City and Quality Life



## *Eco-Block*

Light weight compacted Fiber Soil is a planting medium excellent in root aeration, gas permeability, water-retaining capacity and sustainable nutrition.

## ECO-BLOCK SYSTEM



## *Application of Eco-Block :*

1. Vertical Planting for Retaining Wall, Noise Barrier, Hoarding and Fencing
2. Roof Gardening
3. River Bank Rehabilitation

## ECO-WALL SYSTEM



## GREEN ROOF SYSTEM




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